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TITLE : TARGET FOR SPUTTERING

ABSTRACT : PURPOSE: To improve the cladding properties by welding of a target alloy by adding a specified small, amt. of B to a sputtering target for a Cr-Pt-Co magnetic alloy.

CONSTITUTION: As a magnetic material, a Co-Cr-Pt-B alloy having a compsn. constituted of, by weight, 5 to 20% Cr, 10 to 55% Pt, 0.001 to 0.5% B and the balance Co is melted in vacuum or in an atmosphere of inert gas or reducing gas and is cast into a mold having heat resistance, and after that, the alloy ingot is subjected to cutting to form its shape into a prescribed one by wire cutting, electric discharge machining or the like, is thereafter sintered by hot isostatic pressing, is furthermore annealed and is thereafter rolled into a sintered alloy body having a prescribed thickness. This sintered alloy body is subjected to heat treatment at about 1000°C for 1hr to remove strains in the sintered alloy body, is subjected to machining or the like to straighten its shape and is subjected to specular finishing into a target. Owing to the presence of a trace amt. of B, the objective Co-Cr-Pt alloy target excellent in cladding properties by welding can be obtd.

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